



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

SOUTHWEST REGIONAL OFFICE

Douglas W. Domenech
Secretary of Natural Resources

355 Deadmore Street, PO Box 1688, Abingdon, Virginia 24212
Phone (276) 676-4800 Fax (276) 676-4899
www.deq.virginia.gov

David K. Paylor
Director

Dallas R. Sizemore
Regional Director

August 17, 2010

Mr. Frank Ramsey
Plant Manager
Strongwell Corporation – Highlands Division
26770 Newbanks Road
Abingdon, VA 24211

Location: Washington County
Registration Number: 11207

Dear Mr. Ramsey:

Attached is a renewal Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all conditions carefully.

This approval to operate does not relieve Strongwell Corporation of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. Frank Ramsey
August 17, 2010
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Mr. David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Bruce Mullins at (276) 676-4825.

Sincerely,

Dallas R. Sizemore
Regional Director

Attachments: Permit

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Permits and Technical Assessments Branch, U.S. EPA, Region III (electronic file submission)



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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Strongwell Corporation
Facility Name:	Strongwell Corporation-Highlands Division
Facility Location:	26770 Newbanks Road, Abingdon, Virginia
Registration Number:	11207
Permit Number:	SWRO11207

August 17, 2010
Effective Date

August 16, 2015
Expiration Date

Dallas R. Sizemore
Regional Director

August 17, 2010
Signature Date

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Permit Conditions, 25 pages
MACT Subpart WWW

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I. Facility Information

Permittee

Strongwell Corporation
P. O. Box 580
Bristol, Virginia 24203-0580

Responsible Official

Frank Ramsey
Plant Manager

Facility

Strongwell Corporation-Highlands Division
26770 Newbanks Road
Abingdon, Virginia 24210

Contact Person

John E. Barker
Manager of Environmental Affairs
(276) 645-8009

County-Plant Identification Number: 51-191-00165

Facility Description: NAICS Code: 326199 – Strongwell Corporation manufactures fiberglass reinforced plastics using a pultrusion process at the Highlands Division facility. The pultrusion process involves drawing reinforced fibers through a liquid resin mixture. The saturated fibers are then pulled through forming guides and into a heated die. The resin chemically reacts in the die creating a solid, hard finished part as the material exits. The profile produced is then cut to length. A urethane coating may be applied by hand to pultruded parts depending on customer specifications. Pultrusion resins have two basic components: base resin and monomers. Emissions of volatile organic compounds (VOC) and hazardous air pollutants (HAP) result from the coating of pultruded parts and evaporation of monomers. Emissions of particulate matter (PM) result from cutting the profile to length.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Pultrusion Operations							
PM-1 through PM-5	DC-1	Strongwell, 4-cavity model; produces fiber reinforced plastic products, 5 pultrusion machines	300 lb/hr, each	Farr, size 20D cartridge dust collector	DC-WC-1	Particulate	March 24, 2010
PM-6 through PM-10	DC-1 and DC-2	Strongwell, single/dual cavity model; produces fiber reinforced plastic products, 5 pultrusion machines	150 lb/hr, each	Farr, size 20D cartridge dust collectors	DC-WC-1 and DC-WC-2	Particulate	March 24, 2010
CBS-1	DC-3	Cut back saw - Original Saw Company radial arm saw	455 lb/hr	Ten Kay, size 20D cartridge dust collector	DC-WC-3	Particulate	-----
Clay and Resin Mixing and Storage Equipment							
MR-1	DC-4	Resin mixing room with various Strongwell mixers	6 tons/hr	Farr, size 20D cartridge dust collector	DC-WC-4	Particulate	-----
CAS-1	VS-CAS-1	Clay aggregate storage silo	3,000 cubic feet	Modu-Kleen bin vent filter series 669	AS-1	Particulate	March 24, 2010
DA-1	VS-DA-1	Dynamic Air pneumatic conveying system	6 tons/hr	Modu-Kleen bin vent filter series 669	DA-1	Particulate	March 24, 2010
T-WC-1 through T-WC-4	-----	Bulk resin storage, 4 tanks	6,768 gallon capacity, each	-----	-----	-----	March 24, 2010

Strongwell Corporation-Highlands Division

Permit Number: SWRO11207

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Manual Surface Coating Operation							
PT-1	-----	Hand application of surface coatings	0.568 gallons/hr	-----	-----	-----	March 24, 2010

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Process Equipment Requirements – Pultrusion Machines, PM-1 through PM-10, and Cut Back Saw, CBS-1

A. Limitations

1. The permittee shall operate the pultrusion equipment in compliance with all applicable National Emission Standards for Hazardous Air Pollutants, Subpart WWWW, National Emission Standards for Reinforced Plastic Composites Production, 40 CFR 63.5780 through 40 CFR 63.5935 and 40 CFR Part 63, Subpart A, General Provisions as identified by Tables 1 through 15 of Subpart WWWW.
(9 VAC 5-80-110, 9 VAC 5-60-100 Subparts A and WWWW, 40 CFR 63.1 and 40 CFR 63.5805(a))
2. Particulate emissions from the pultrusion machines shall be controlled by dust collectors using fabric or paper filters. The dust collectors shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 4 of 3/24/10 Permit)
3. The consumption of styrene resin mix shall not exceed 7,500 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 9 of 3/24/10 Permit)
4. The consumption of phenolic resin mix shall not exceed 600 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 10 of 3/24/10 Permit)
5. The pultrusion operations shall process no more than the following quantities of the listed materials or their equivalents:

	<u>lb/hr</u>	<u>tons/yr</u>
Esperox 570P	8.40	25.8
t-Butyl Perbenzoate	2.10	6.5
Lupersol DDM-9	0.56	0.1
Dimethylaniline	0.04	0.01
PM Acetate Blend	80.00	50.0
M-1526 Inhibitor	2.00	1.3

(9 VAC 5-80-110 and Condition 11 of 3/24/10 Permit)

6. Emissions from the operation and clean-up of the pultrusion machines shall not exceed the limits specified below:

Volatile Organic Compounds	43.81 lb/hr	81.62 tons/yr
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(9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 13 of 3/24/10 Permit)

7. Emissions of total organic HAP from pultrusion operations producing plastic composites using styrene-containing resin shall be reduced by an average of at least 60 weight percent for all pultrusion machines and lines combined. This condition applies at all times. The permittee shall use one or more of the following options to meet the 60 weight percent reduction requirement:
 - a. Design, install, and operate wet area enclosures and resin drip collection systems on pultrusion machines that meet the following criteria:
 - (1) The enclosure must cover and enclose the open resin bath and the forming area in which reinforcements are pre-wet or wet-out and moving toward the die(s). The surfaces of the enclosure must be closed except for openings to allow material to enter and exit the enclosure.
 - (2) For open bath pultrusion machines with a radio frequency pre-heat unit, the enclosure must extend from the beginning of the resin bath to within 12.5 inches or less of the entrance of the radio frequency pre-heat unit. If the stock that is within 12.5 inches or less of the entrance to the radio frequency pre-heat unit has any drip, it must be enclosed. The stock exiting the radio frequency pre-heat unit is not required to be in an enclosure if the stock has no drip between the exit of the radio frequency pre-heat unit to within 0.5 inches of the entrance of the die.
 - (3) For open bath pultrusion machines without a radio frequency pre-heat unit, the enclosure must extend from the beginning of the resin bath to within 0.5 inches or less of the die entrance.
 - (4) For pultrusion lines with pre-wet area(s) prior to direct die injection, no more than 12.5 inches of open wet stock is permitted between the entrance of the first pre-wet area and the entrance to the die. If the pre-wet stock has any drip, it must be enclosed.
 - (5) The total open area of the enclosure must not exceed two times the cross sectional area of the puller window(s) and must comply with the following requirements:
 - i. All areas that are open need to be included in the total open area calculation with the exception of access panels, doors, and/or hatches that are part of the enclosure.
 - ii. The area that is displaced by entering reinforcement or exiting product is considered open.
 - iii. Areas that are covered by brush covers are considered closed.
 - (6) Open areas for level control devices, monitoring devices, agitation shafts, and fill hoses must have no more than 1.0 inch clearance.

- (7) The access panels, doors, and/or hatches that are part of the enclosure must close tightly. Damaged access panels, doors, and/or hatches that do not close tightly must be replaced.
 - (8) The enclosure may not be removed from the pultrusion line, and access panels, doors, and/or hatches that are part of the enclosure must remain closed whenever resin is in the bath, except for the time period discussed in Condition III.A.7.a.(9) of this permit.
 - (9) The maximum length of time the enclosure may be removed from the pultrusion line or the access panels, doors, and/or hatches and may be open, is 30 minutes per 8 hour shift, 45 minutes per 12 hour shift, or 90 minutes per day if the machine is operated for 24 hours in a day. The time restrictions do not apply if the open doors or panels do not cause the limit of two times the puller window area to be exceeded. Facilities may average the times that access panels, doors, and/or hatches are open across all operating lines. In that case the average must not exceed the times shown in this paragraph. All lines included in the average must have operated the entire time period being averaged.
 - (10) No fans, blowers, and/or air lines may be allowed within the enclosure. The enclosure must not be ventilated.
- b. Use direct die injection pultrusion machines with resin drip collection systems that meet all the following criteria:
- (1) All the resin that is applied to the reinforcement is delivered directly to the die.
 - (2) No exposed resin is present, except at the face of the die.
 - (3) Resin drip is captured in a closed system and recycled back to the process.
- c. Use a preform injection system where liquid resin is injected to saturate reinforcements in an enclosed system containing one or more chambers with openings only large enough to admit reinforcements. Resin, which drips out of the chamber(s) during the process, shall be collected in closed piping or covered troughs and then into a covered reservoir for recycle. Resin storage vessels, reservoirs, transfer systems, and collection systems shall be covered or shielded from ambient air.
- d. Use any combination of options in paragraphs III.A.7.a through III.A.7.c of this condition in which different pultrusion lines comply with different options described in paragraphs III.A.7.a through III.A.7.c of this condition, and
- (1) Each individual pultrusion machine meets the 60 percent reduction requirement, or

- (2) The weighted average reduction based on resin throughput of all machines combined is 60 percent. For purposes of the average percent reduction calculation, wet area enclosures reduce organic HAP emissions by 60 percent, and direct die injection and perform injection reduce organic HAP emissions by 90 percent.

(9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWWW, 40 CFR 63.5805(a), 40 CFR 63.5830(b) – (e) and 40 CFR 63.5835(a))

8. For pultrusion equipment manufacturing parts using styrene-containing resin with 1,000 or more reinforcements or the glass equivalent of 1,000 ends of 113 yield roving or more; and having a cross sectional area of 60 square inches or more, the permittee shall at all times:
- a. Not allow vents from the building ventilation system, or local or portable fans to blow directly on or across the wet-out area(s),
 - b. Not permit point suction of ambient air in the wet-out area(s) unless that air is directed to a control device,
 - c. Use devices such as deflectors, baffles, and curtains when practical to reduce air flow velocity across the wet-out area(s),
 - d. Direct any compressed air exhausts away from resin and wet-out area(s),
 - e. Convey resin collected from drip-off pans or other devices to reservoirs, tanks, or sumps via covered troughs, pipes, or other covered conveyance that shields the resin from the ambient air,
 - f. Cover all reservoirs, tanks, sumps, or HAP-containing materials storage vessels except when they are being charged or filled, and
 - g. Cover or shield from ambient air resin delivery systems to the wet-out area(s) from reservoirs, tanks, or sumps where practical.

(9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWWW, 40 CFR 63.5805(a) and 40 CFR 63.5835(a))

9. Emissions from the operation of the cut back saw shall not exceed the limit specified below:

Particulate Matter	1.52 lb/hr
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(9 VAC 5-80-110 and 9 VAC 5-40-260 C)

10. Visible emissions from the cut back saw exhaust shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and 9 VAC 5-50-80)

B. Monitoring

1. Emissions from the operation and clean up of the pultrusion equipment shall be calculated using DEQ approved emission factors.
(9 VAC 5-50-50 and 9 VAC 5-80-110)
2. The permittee shall calculate the organic HAP emissions factor for the pultrusion machines, monthly as the sum of each consecutive 12-month period, which demonstrates compliance with the organic HAP reduction requirement in Condition III.A.7 of this permit.
(9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWW and 40 CFR 63.5900(a)(2))

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

1. Annual consumption of styrene resin mix in the pultrusion machines, calculated monthly as the sum of each consecutive 12-month period.
2. Annual consumption of phenolic resin mix in the pultrusion machines, calculated monthly as the sum of each consecutive 12-month period.
3. Monthly and annual hours of operation of the pultrusion machines. Annual hours of operation shall be calculated monthly as the sum of each consecutive 12-month period.
4. Monthly and annual consumption of resin mix materials in the pultrusion machines including additives, catalysts and solvents. Annual amounts shall be calculated monthly as the sum of each consecutive 12-month period.
5. Hourly consumption of resin mix materials in the pultrusion machines. Hourly amounts shall be calculated by dividing monthly consumption of resin mix materials in the pultrusion machines by monthly hours of operation of the pultrusion machines.
6. Emission factors used to calculate emissions from the pultrusion equipment.
7. All data, assumptions, and calculations used to determine organic HAP emissions factors for pultrusion equipment.

8. All times that doors or covers of wet area enclosures are open and there is resin present in the resin bath.
9. A copy of each notification and report submitted to comply with this permit or any applicable requirement.
10. A certified statement of compliance with the work practice requirements in Condition III.A.7 of this permit.
11. Organic HAP content of each resin.
12. Monthly hours of operation of the cut back radial arm saw.
13. Monthly throughput of material, in pounds or tons, to the cut back radial arm saw.
14. Hourly throughput of material, in pounds or tons, to the cut back saw. Hourly amounts shall be calculated by dividing monthly throughput of material, in pounds or tons, to the cut back saw by monthly hours of operation of the cut back saw.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWWW, 40 CFR 63.5895(c) and (e), 40 CFR 63.5915, 40 CFR 63.5920 and Condition 15 of 3/24/10 Permit)

D. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ. (9 VAC 5-80-110)

IV. Process Equipment Requirements – Clay and Resin Mixing and Storage Equipment: MR-1, CAS-1, DA-1, and T-WC-1 through T-WC-4

A. Limitations

1. The permittee shall operate resin mixing and storage equipment in compliance with all applicable National Emission Standards for Hazardous Air Pollutants, Subpart WWWW, National Emission Standards for Reinforced Plastic Composites Production, 40 CFR 63.5780 through 40 CFR 63.5935 and 40 CFR Part 63, Subpart A, General Provisions as identified by Tables 1 through 15 for Subpart WWWW. (9 VAC 5-80-110, 9 VAC 5-60-100 Subparts A and WWWW, 40 CFR 63.1 and 40 CFR 63.5805(a))
2. Particulate emissions from pneumatic loading of the clay aggregate storage silo shall be controlled by fabric filtration or equivalent on the silo vents. The particulate control devices shall be provided with adequate access for inspection. (9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 2 of 3/24/10 Permit)

3. Particulate emissions from the Dynamic Air pneumatic conveying system shall be controlled by fabric filtration, or equivalent. The particulate control devices shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 3 of 3/24/10 Permit)
4. The consumption of clay aggregate material shall not exceed 2,700 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 8 of 3/24/10 Permit)
5. The permittee shall comply at all times with the following work practice standards for mixing and storing styrene-containing resins:
 - a. Use mixer covers with no visible gaps present in the mixer covers, except that gaps of up to 1 inch are permissible around mixer shafts and any required instrumentation.
 - b. Close any mixer vents when actual mixing is occurring, except that venting is allowed during addition of materials, or as necessary prior to adding materials or opening the cover for safety.
 - c. Keep mixer covers closed while actual mixing is occurring except when adding materials or changing covers to the mixing vessels.
 - d. Containers that store HAP-containing materials shall be kept closed or covered except during the addition or removal of materials. Bulk HAP-containing materials storage tanks may be vented as necessary for safety.
(9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWW, 40 CFR 63.5805(a) and 40 CFR 63.5835(a))

B. Monitoring and Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

1. A certified statement of compliance with the work practice requirements in Condition IV.A.5 of this permit.
2. The annual consumption of clay aggregate material, calculated monthly as the sum of each consecutive 12-month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-50, 9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWW, 40 CFR 63.5915, 40 CFR 63.5920 and Condition 15 of 3/24/10 Permit)

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ. (9 VAC 5-80-110)

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V. Process Equipment Requirements – Manual Surface Coating Operation: PT-1

A. Limitations

1. Total combined throughput of TNEMEC Company, Inc. Endura-Shield Slate Gray, Endura Shield Converter and Accelerator Urethane, and Carboline Company Carbothane 133 FC Part A and Urethane Converter 8800, or equivalent coatings to the manual surface coating operation shall not exceed 4,975 gallons per year, calculated monthly as the sum of each consecutive 12-month period. (9 VAC 5-80-110 and Condition 7 of 3/24/10 Permit)

2. Emissions from the manual surface coating operation shall not exceed the limits specified below:

Volatile Organic Compounds	3.82 lb/hr	16.73 tons/yr
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(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 12 of 3/24/10 Permit)

B. Monitoring and Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

1. The annual throughput of coatings to the manual surface coating operation, calculated monthly as the sum of each consecutive 12-month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 15 of 3/24/10 Permit)

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C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ. (9 VAC 5-80-110)

VI. Facility-Wide Conditions

A. Limitations

1. For cleaning operations for reinforced plastic composites production equipment subject to 40 CFR Part 63, Subpart WWW, cleaning solvents that contain HAP

shall not be used, except that styrene may be used in closed systems, and organic HAP containing materials may be used to clean cured resin from application equipment. Application equipment includes any equipment that directly contacts resin. The requirements of this condition do not apply to mold sealing and release agents or to mold stripping and cleaning. This condition applies at all times.
(9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWW, 40 CFR 63.5790(c), 40 CFR 63.5805(a) and 40 CFR 63.5835(a))

2. At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-80-110, 9 VAC 5-50-20 F and Condition 5 of 3/24/10 Permit)
3. Visible emissions from each fabric filter and/or dust collector exhaust, excluding the cut back saw exhaust, shall not exceed 5 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110, 9 VAC 5-50-260, 9 VAC 5-50-20 and Condition 14 of 3/24/10 Permit)

B. Monitoring

1. Visible emission observations shall be performed on each fabric filter and/or dust collector exhaust to the atmosphere at least once each day for a brief period of time to determine if the operating emissions units have visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation is performed on the emissions unit. If visible emissions are observed during the daily observations, then a visible emissions evaluation in accordance with 40 CFR 60, Appendix A, Method 9 shall be conducted on the unit with visible emissions. A Method 9 evaluation is not required if the visible emission condition is corrected as expeditiously as practicable such that no visible emissions are present and, the visible emission condition, cause and corrective measures taken are recorded. A record of each visible emissions observation shall be maintained. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable emissions requirement, the results of the observation and the name of the observer.
(9 VAC 5-50-20 and 9 VAC 5-80-110 K)
2. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment, monitoring devices, and process equipment which affect such emissions:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.
(9 VAC 5-50-20 E, 9 VAC 5-80-110 and Condition 18 of 3/24/10 Permit)

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

- 1. Visible emissions observations and evaluations.
- 2. Operating procedures, scheduled and unscheduled maintenance of all air pollution control equipment based on the manufacturer's recommendations, at minimum.
- 3. Air pollution control equipment operator training including the names of trainees, the date of training and the nature of the training.
- 4. A copy of each notification and report submitted to comply with this permit or any applicable requirement.
- 5. A certified statement of compliance with the work practice requirements in Condition VI.A.1 of this permit.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, Condition 18 of 3/24/10 Permit, 9 VAC 5-60-100 Subpart WWW, 40 CFR 63.5915 and 40 CFR 63.5920)

D. Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 F, 9 VAC 5-80-110 and Condition 6 of 3/24/10 Permit)
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. Reporting

1. The permittee shall submit to the Director, Southwest Regional Office, semiannual compliance reports in accordance with 40 CFR 63.5910. The time periods to be addressed are January 1 to June 30 and July 1 to December 31. Each report must be postmarked or delivered no later than March 1 or September 1, whichever date is the first date following the end of the semiannual reporting period. Each report shall include, at a minimum:
 - a. Company name and address.
 - b. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - c. Date of the report and beginning and ending dates of the reporting period.
 - d. If there are no deviations from any applicable organic HAP emissions limitations, and there are no deviations from the requirements for work practice standards, a statement that there were no deviations from the organic HAP emissions limitations or work practice standards during the reporting period.
 - e. For each deviation from an organic HAP emission limitation or work practice standard, the report must contain the total operating time of each affected source during the reporting period and information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

The semiannual compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report required in General Condition IX.C of this permit if the compliance report is submitted along with, or as part of, the semiannual monitoring report and the compliance report includes all required information concerning deviations from any organic HAP emissions limitation (including any operating limit) or work practice requirement in 40 CFR Part 63, Subpart WWW. However, submission of a semiannual compliance report shall not otherwise affect any obligation to report deviations from requirements of this permit.

Copies of each semiannual compliance report shall be submitted to EPA at the following address:

Office of Air Enforcement and Compliance Assistance, 3AP20
EPA Region III
1650 Arch Street
Philadelphia, PA 19103
(9 VAC 5-80-110, 9 VAC 5-60-100 Subpart WWW and 40 CFR 63.5910)

VII. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
HC-1	York heating/cooling system	9 VAC 5-80-720 C.2.a.	-----	0.163 Million Btu/hr heat input
HC-2 and HC-3	York heating/cooling system	9 VAC 5-80-720 C.2.a.	-----	0.10 Million Btu/hr heat input, each
SH-1 through SH-33	Radiant space heaters, natural gas-fired	9 VAC 5-80-720 A.6	-----	0.075 Million Btu/hr heat input, each
AH-1	Natural gas-fired space heater	9 VAC 5-80-720 C.2.a.	-----	1 million Btu/hr heat input
AH-2	Natural gas-fired space heater	9 VAC 5-80-720 C.2.a.	-----	1.75 million Btu/hr heat input

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

VIII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR Part 60, Subpart VVV and 9 VAC 5-50-410	Standards of Performance for Polymeric Coating of Supporting Substrates Facilities	Each coating operation and any onsite coating mix preparation equipment used to prepare coatings for the polymeric coating of supporting substrates.
9 VAC 5-40-260	Existing Stationary Source Emission Standards for General Process Operations - Standard for Particulate Matter	Each process operation, each process gas stream and each combustion installation.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the

owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

IX. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in

writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.
(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”
(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.
7. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Southwest Regional Office, within four (4) daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective

actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3. of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Southwest Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Southwest Regional Office.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios. (9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality. (9 VAC 5-80-110 G.6)
2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G. (9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. (9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
 4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
 5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
- (9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9

VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
(9 VAC 5-80-110 I)

X. State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states: 9 VAC 5-50-310, Standard for odor.
(9 VAC 5-80-110 N and 9 VAC 5-80-300)